<u>RAW SEQUENCE LISTING</u>

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 09/900, 963C

Source: _____ IfW16

Date Processed by STIC: _____ '04/27/2006

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RAW SEQUENCE LISTING   DATE: 04/27/2006
PATENT APPLICATION: US/09/900,963C   TIME: 10:18:02

    Input Set : A:\PTO.DL.txt
    Output Set: N:\CRF4\04272006\I900963C.raw

```
 4 <110> APPLICANT: GUERIN-MARCHAND, CLAUDINE
 5        DRUILHE, PIERRE
 7 <120> TITLE OF INVENTION: PEPTIDE SEQUENCES SPECIFIC FOR THE HEPATIC STAGES OF
 8        P. FALCIPARUM BEARING EPITOPES CAPABLE OF STIMULATING
 9        THE T LYMPHOCYTES
11 <130> FILE REFERENCE: 010830-118
13 <140> CURRENT APPLICATION NUMBER: 09/900,963C
14 <141> CURRENT FILING DATE: 2001-07-10
16 <150> PRIOR APPLICATION NUMBER: 08/098,327
17 <151> PRIOR FILING DATE: 1993-11-24
19 <150> PRIOR APPLICATION NUMBER: PCT/FR92/00104
20 <151> PRIOR FILING DATE: 1992-02-05
22 <150> PRIOR APPLICATION NUMBER: FR 91 01286
23 <151> PRIOR FILING DATE: 1991-02-05
25 <160> NUMBER OF SEQ ID NOS: 47
27 <170> SOFTWARE: PatentIn Ver. 3.3
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 17
31 <212> TYPE: PRT
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
36        Sequence
38 <220> FEATURE:
39 <221> NAME/KEY: MOD_RES
40 <222> LOCATION: (8)
41 <223> OTHER INFORMATION: Glu or Gly
43 <400> SEQUENCE: 1
```

W--> 44 **Leu Ala Lys Glu Lys Leu Gln Xaa Gln Gln Ser Asp Leu Glu Gln Glu**
```
45   1               5                   10                  15
47 Arg
50 <210> SEQ ID NO: 2
51 <211> LENGTH: 17
52 <212> TYPE: PRT
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
57        Sequence
59 <220> FEATURE:
60 <221> NAME/KEY: MOD_RES
61 <222> LOCATION: (1)
62 <223> OTHER INFORMATION: Ser or Arg
64 <220> FEATURE:
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Input Set : A:\PTO.DA.txt
Output Set: N:\CRF4\04272006\I900963C.raw

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 65 <221> NAME/KEY: MOD_RES
 66 <222> LOCATION: (6)
 67 <223> OTHER INFORMATION: Glu or Asp
 69 <220> FEATURE:
 70 <221> NAME/KEY: MOD_RES
 71 <222> LOCATION: (8)
 72 <223> OTHER INFORMATION: Arg or Leu
 74 <220> FEATURE:
 75 <221> NAME/KEY: MOD_RES
 76 <222> LOCATION: (15)
 77 <223> OTHER INFORMATION: Glu or Gly
 79 <400> SEQUENCE: 2
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W-->
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 80 Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln Xaa Gln
 81   1               5                  10                  15
 83 Gln
 86 <210> SEQ ID NO: 3
 87 <211> LENGTH: 17
 88 <212> TYPE: PRT
 89 <213> ORGANISM: Artificial Sequence
 91 <220> FEATURE:
 92 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
 93       Sequence
 95 <220> FEATURE:
 96 <221> NAME/KEY: MOD_RES
 97 <222> LOCATION: (2)
 98 <223> OTHER INFORMATION: Ser or Arg
100 <220> FEATURE:
101 <221> NAME/KEY: MOD_RES
102 <222> LOCATION: (7)
103 <223> OTHER INFORMATION: Glu or Asp
105 <220> FEATURE:
106 <221> NAME/KEY: MOD_RES
107 <222> LOCATION: (9)
108 <223> OTHER INFORMATION: Arg or Leu
110 <220> FEATURE:
111 <221> NAME/KEY: MOD_RES
112 <222> LOCATION: (16)
113 <223> OTHER INFORMATION: Glu or Gly
115 <400> SEQUENCE: 3
```
W-->
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116 Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln Xaa
117   1               5                  10                  15
119 Gln
122 <210> SEQ ID NO: 4
123 <211> LENGTH: 17
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
129       Sequence
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131 <220> FEATURE:
132 <221> NAME/KEY: MOD_RES
133 <222> LOCATION: (3)
134 <223> OTHER INFORMATION: Ser or Arg
136 <220> FEATURE:
137 <221> NAME/KEY: MOD_RES
138 <222> LOCATION: (9)
139 <223> OTHER INFORMATION: Glu or Asp
141 <220> FEATURE:
142 <221> NAME/KEY: MOD_RES
143 <222> LOCATION: (10)
144 <223> OTHER INFORMATION: Arg or Leu
146 <220> FEATURE:
147 <221> NAME/KEY: MOD_RES
148 <222> LOCATION: (17)
149 <223> OTHER INFORMATION: Glu or Gly
151 <400> SEQUENCE: 4
```
W--> `152 Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu Gln`
```
153    1              5                   10                  15
```
W--> `155 Xaa`
```
158 <210> SEQ ID NO: 5
159 <211> LENGTH: 17
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
165        Sequence
167 <220> FEATURE:
168 <221> NAME/KEY: MOD_RES
169 <222> LOCATION: (1)
170 <223> OTHER INFORMATION: Glu or Gly
172 <220> FEATURE:
173 <221> NAME/KEY: MOD_RES
174 <222> LOCATION: (4)
175 <223> OTHER INFORMATION: Ser or Arg
177 <220> FEATURE:
178 <221> NAME/KEY: MOD_RES
179 <222> LOCATION: (9)
180 <223> OTHER INFORMATION: Glu or Asp
182 <220> FEATURE:
183 <221> NAME/KEY: MOD_RES
184 <222> LOCATION: (11)
185 <223> OTHER INFORMATION: Arg or Leu
187 <400> SEQUENCE: 5
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W--> `188 Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys Leu`
```
189    1            5                 10                  15
191 Gln
194 <210> SEQ ID NO: 6
195 <211> LENGTH: 17
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Input Set : A:\PTO.DA.txt
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196 <212> TYPE: PRT
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
201   Sequence
203 <220> FEATURE:
204 <221> NAME/KEY: MOD_RES
205 <222> LOCATION: (2)
206 <223> OTHER INFORMATION: Glu or Gly
208 <220> FEATURE:
209 <221> NAME/KEY: MOD_RES
210 <222> LOCATION: (5)
211 <223> OTHER INFORMATION: Ser or Arg
213 <220> FEATURE:
214 <221> NAME/KEY: MOD_RES
215 <222> LOCATION: (10)
216 <223> OTHER INFORMATION: Glu or Asp
218 <220> FEATURE:
219 <221> NAME/KEY: MOD_RES
220 <222> LOCATION: (12)
221 <223> OTHER INFORMATION: Arg or Leu
223 <400> SEQUENCE: 6
W--> 224 Gln Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu Lys
225   1   5   10   15
227 Leu
230 <210> SEQ ID NO: 7
231 <211> LENGTH: 17
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
237   Sequence
239 <220> FEATURE:
240 <221> NAME/KEY: MOD_RES
241 <222> LOCATION: (3)
242 <223> OTHER INFORMATION: Glu or Gly
244 <220> FEATURE:
245 <221> NAME/KEY: MOD_RES
246 <222> LOCATION: (6)
247 <223> OTHER INFORMATION: Ser or Arg
249 <220> FEATURE:
250 <221> NAME/KEY: MOD_RES
251 <222> LOCATION: (11)
252 <223> OTHER INFORMATION: Glu or Asp
254 <220> FEATURE:
255 <221> NAME/KEY: MOD_RES
256 <222> LOCATION: (13)
257 <223> OTHER INFORMATION: Arg or Leu
259 <400> SEQUENCE: 7

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Input Set : A:\PTO.DA.txt
Output Set: N:\CRF4\04272006\I900963C.raw

```
W--> 260 Leu Gln Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys Glu
     261    1               5              10               15
     263 Lys
     266 <210> SEQ ID NO: 8
     267 <211> LENGTH: 17
     268 <212> TYPE: PRT
     269 <213> ORGANISM: Artificial Sequence
     271 <220> FEATURE:
     272 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
     273       Sequence
     275 <220> FEATURE:
     276 <221> NAME/KEY: MOD_RES
     277 <222> LOCATION: (4)
     278 <223> OTHER INFORMATION: Glu or Gly
     280 <220> FEATURE:
     281 <221> NAME/KEY: MOD_RES
     282 <222> LOCATION: (7)
     283 <223> OTHER INFORMATION: Ser or Arg
     285 <220> FEATURE:
     286 <221> NAME/KEY: MOD_RES
     287 <222> LOCATION: (12)
     288 <223> OTHER INFORMATION: Glu or Asp
     290 <220> FEATURE:
     291 <221> NAME/KEY: MOD_RES
     292 <222> LOCATION: (14)
     293 <223> OTHER INFORMATION: Arg or Leu
     295 <400> SEQUENCE: 8
W--> 296 Lys Leu Gln Xaa Gln Gln Xaa Asp Leu Glu Gln Xaa Arg Xaa Ala Lys
     297    1               5              10               15
     299 Glu
     302 <210> SEQ ID NO: 9
     303 <211> LENGTH: 17
     304 <212> TYPE: PRT
     305 <213> ORGANISM: Artificial Sequence
     307 <220> FEATURE:
     308 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Formula
     309       Sequence
     311 <220> FEATURE:
     312 <221> NAME/KEY: MOD_RES
     313 <222> LOCATION: (5)
     314 <223> OTHER INFORMATION: Glu or Gly
     316 <220> FEATURE:
     317 <221> NAME/KEY: MOD_RES
     318 <222> LOCATION: (8)
     319 <223> OTHER INFORMATION: Ser or Arg
     321 <220> FEATURE:
     322 <221> NAME/KEY: MOD_RES
     323 <222> LOCATION: (13)
     324 <223> OTHER INFORMATION: Glu or Asp
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/27/2006
PATENT APPLICATION: **US/09/900,963C**   TIME: 10:18:03

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\04272006\I900963C.raw**

Please Note:
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:1; Xaa Pos. 8
Seq#:2; Xaa Pos. 1,6,8,15
Seq#:3; Xaa Pos. 2,7,9,16
Seq#:4; Xaa Pos. 3,8,10,17
Seq#:5; Xaa Pos. 1,4,9,11
Seq#:6; Xaa Pos. 2,5,10,12
Seq#:7; Xaa Pos. 3,6,11,13
Seq#:8; Xaa Pos. 4,7,12,14
Seq#:9; Xaa Pos. 5,8,13,15
Seq#:10; Xaa Pos. 6,9,14,16
Seq#:11; Xaa Pos. 7,10,15,17
Seq#:12; Xaa Pos. 1,8,11,16
Seq#:13; Xaa Pos. 2,9,12,17
Seq#:14; Xaa Pos. 1,3,10,13
Seq#:15; Xaa Pos. 2,4,11,14
Seq#:16; Xaa Pos. 3,5,12,15
Seq#:17; Xaa Pos. 4,6,13,16
Seq#:18; Xaa Pos. 5,7,14,17

VERIFICATION SUMMARY   DATE: 04/27/2006
PATENT APPLICATION: **US/09/900,963C**   TIME: 10:18:03

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\04272006\I900963C.raw**

```
L:44  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:80  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:16
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:16
```